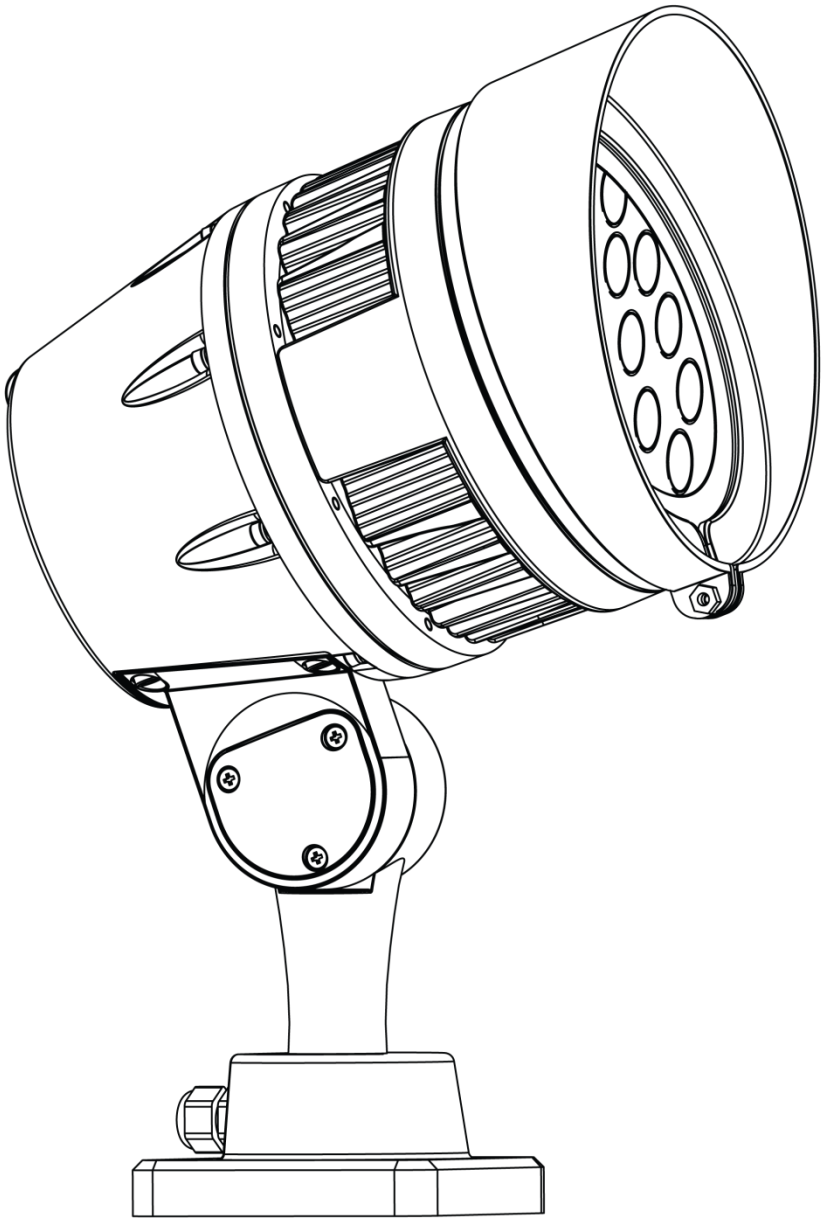
Ilumipod 18g2 IP Optic RGB

User Manual



ILUMINARC®

Edition Notes

The Ilumipod 18g2 IP Optic RGB User Manual Rev. 1 covers the description, safety precautions, installation, programming, operation, and maintenance of the Ilumipod 18g2 IP Optic RGB. ILUMINARC® released this edition of the Ilumipod 18g2 IP Optic RGB User Manual Rev. 1 in October 2012.

Trademarks

The ILUMINARC® logo, the ILUMINARC® name and all other trademarks in this document related to services or products by ILUMINARC® are trademarks owned or licensed by ILUMINARC®, its affiliates or subsidiaries. Any other product names, logos, brands, company names, trademarks featured or referred to within this document are the property of their respective trademark holders.

Copyright Notice

The entire content of this document, except where applicable and unless otherwise noted, is solely owned by ILUMINARC®, a wholly owned trademark of CHAUVET & Sons, Inc.

© Copyright 2012 ILUMINARC®.

All rights reserved.

Electronically published by ILUMINARC® in the United States of America.

Manual Usage

ILUMINARC® authorizes its customers to download and print this manual for professional information purposes only. ILUMINARC® expressly prohibits the usage, copy, storage, distribution, modification, or printing of this manual or its content for any other purpose without its written consent.

Document Printing

For better results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure your printer to scale the content of this document to A4 paper.

Intended Audience

Any person in charge of installing, operating, and/or maintaining the Ilumipod 18g2 IP Optic RGB should read all of both the guide that shipped with it and this User Manual before installing, operating, or maintaining this product.

Disclaimer

ILUMINARC® believes that the information contained in this manual is accurate in all respects. However, ILUMINARC® assumes no responsibility for any error or omissions in this document. ILUMINARC® reserves the right to revise this document and to make changes from time to time in the content hereof without obligation of ILUMINARC® to notify any person or company of such revision or changes. This does not constitute in any way a commitment by ILUMINARC® to make such changes. ILUMINARC® may issue a revision of this manual or a new edition of it to incorporate such changes.

Document Revision

The Ilumipod 18g2 IP Optic RGB User Manual Rev. 1 supersedes all previous versions of this manual. Please discard any older versions of this manual you may have, whether in printed or electronic format, and replace them with this version.

Author	Date	Editor	Date
D. Couppe	10/15/12	S. Diaz	10/15/12

Table of Contents

1. Introduction 1

What Is In The Box 1
Unpacking Instructions 1
Claims 1
Text Conventions 1
Safety Notes 2
Personal Safety 2
Mounting and Installation 2
Power and Wiring 2
Operation 2

2. Product Description 3

Features 3
Additional Features 3
Options 3
Overview 4
Dimensions 5

3. Installation 6

Mounting 6
Orientation 6
Installation 6
Procedure 6
AC Power 7
Power Consumption 7
AC Plug 7
Power Wiring 7
DMX Linking 8
DMX Modes 8
Signal Wiring 8
Protocol Connectivity 8
Controllers 9
DMX Controller 9
ILUMICON 10
ILUMICODE ADDRESSER 10

4. Operation 11

ILUMICODE ADDRESSER 11
Ilumicode Panel Description 11
Control Options 11
Programming 11
DMX Personality 11
DMX Starting Address 11
Static Colors 12
Dimmer 12
Color 12
Whites Setting 12
Reset to Factory Settings 12
Menu Map 13
DMX Values 14
ARC FULL 14
ARC 1 14
ARC 1 + D 14
SOLID 14

5. Technical Information 15

Product Maintenance 15

Product Repairs 15
Troubleshooting Guide 16
Photometrics 17
LED Disclaimer 18
LED Life 18
LED Binning 18
Color Rendering Index (CRI) 18
Return Procedure 19
Contact Us 19
Technical Specifications 20

1. Introduction

Critical installation, configuration, or operation information. Failure to comply with this information may render the product partially or completely inoperative, damage third-party equipment, or cause harm to the user

Important installation or configuration information. Failure to comply with this information may prevent the product from functioning correctly.

Useful information.

What Is In The Box

- Ilumipod 18g2 IP Optic RGB
- Warranty Card
- Quick Reference Guide

Unpacking Instructions

Immediately upon receiving a product from ILUMINARC®, carefully unpack the carton. Check the contents of the box to ensure that all parts are present and that they are in good condition.

Claims

The carrier is responsible for any damage incurred during shipping. Therefore, if the received merchandise appears to have been damaged during shipping, the customer must submit the damage report and any related claims to the carrier, not ILUMINARC®. The customer must submit the report upon receipt of the damaged merchandise. Failure to do so in a timely manner may invalidate the customer's claim with the carrier.

For other issues such as missing components or parts, damage not related to shipping, or concealed damage, the customer must make claims to ILUMINARC® within 7 days of receiving the merchandise.

Text Conventions

Convention	Meaning
1~512	A range of values in the text
50/60	A set of mutually exclusive values in the text
"ILUMICON UM"	The name of another publication or manual
<SET>	A button on the product's control panel
Settings	A product function or a menu option
MENU > Settings	A sequence of menu options
1~10	A range of menu values from which to choose in a menu
Yes/No	A set of two mutually exclusive menu options in a menu
ON	A unique value to enter or select in a menu

The term "DMX" used throughout this document refers to the USITT DMX512-A transmission protocol.

Safety Notes

Please read all the following Safety Notes carefully because they include important information on how to install, use, and maintain this product safely.

There are no user-serviceable parts inside this product. Any reference to servicing you may find in this User Manual will only apply to properly certified ILUMINARC® technicians. Do not open the housing or attempt any repairs unless you are certified to do so.

Personal Safety

- Avoid direct eye exposure to the light source while the product is on.
- Always disconnect this product from its power source before servicing.
- Always connect this product to a grounded circuit to avoid the risk of electrocution.
- Do not touch this product's housing when operating because it may be very hot.

Please refer to all applicable local codes and regulations for the proper installation of this product.

Mounting and Installation

- This product is for outdoor use and can be submerged (IP67). However, do not submerge deeper than 1 m for more than thirty (30) minutes.
- This product weighs 11.6 lbs (5.26 kg). Always ask for help when mounting this product to avoid personal injuries or damage to the product.
- Make sure there are no flammable materials close to this product while it is operating.
- When hanging this product, always secure it to a fastening device using a safety cable (not provided).

Keep this manual for future consultation. If you sell this product to another user, make sure that they also receive this manual.

Power and Wiring

- Always make sure that you are connecting this product to the proper voltage, as per the specifications in this manual or on the product's sticker.
- Never connect this product to a dimmer pack.
- Make sure that the power input cable is not cracked, crimped, or damaged.
- Never disconnect this product by pulling or tugging on the power input cable.

Operation

- The maximum ambient temperature is 113° F (45° C). Do not operate this product at a higher temperature.
- In case of a serious operating problem, stop using this product immediately!

In the unlikely event that your Ilumipod 18g2 IP Optic RGB may require service, please contact ILUMINARC® Technical Support.

2. Product Description

The Ilumipod 18g2 IP Optic RGB is a LED wash light intended to light a variety of both indoor and outdoor applications installation space is limited. The Ilumipod 18g2 IP Optic RGB consists of cast aluminum body containing a power supply, control unit, and an adjustable base. The DMX input and output is located on rear of the product.

Features

- 1, 3, 4, or 7-channel RGB LED wash product
- Operating modes:
  1-channel: Dimmer
  3-channel: RGB control
  4-channel: RGB, dimmer
  7-channel: RGB, dimmer, color macro, strobe, dimmer speed
- RGB color mixing with or without DMX control
- Color temperature presets (3,200~10,000 K)
- Built-in automated programs via DMX
- IP67 stainless steel gland nuts for cable entry
- Integrated Cooling Enhancement™

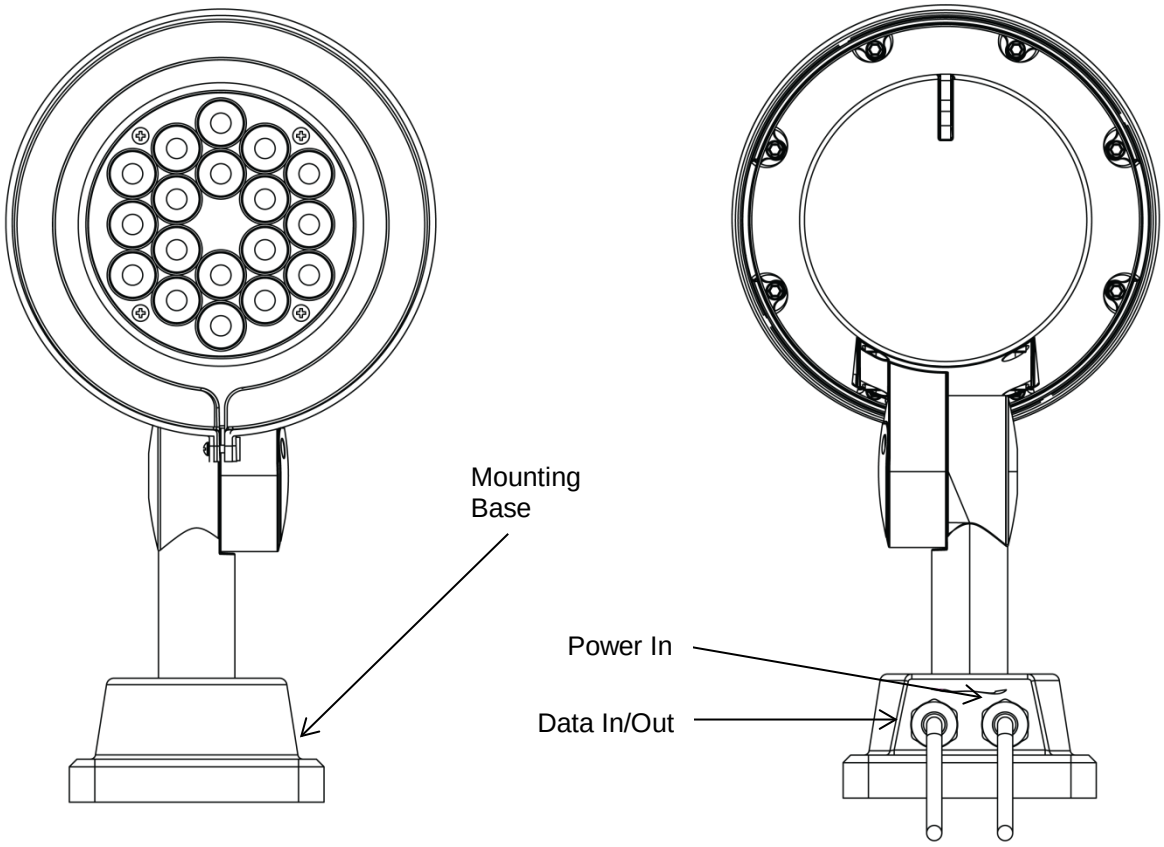
Additional Features

- Adjustable base
- Humidity-controlling GORE® valve
- Impact-resistant glass lens cover
- Cast aluminum, IP67 housing
- 5 distinct dimming curves

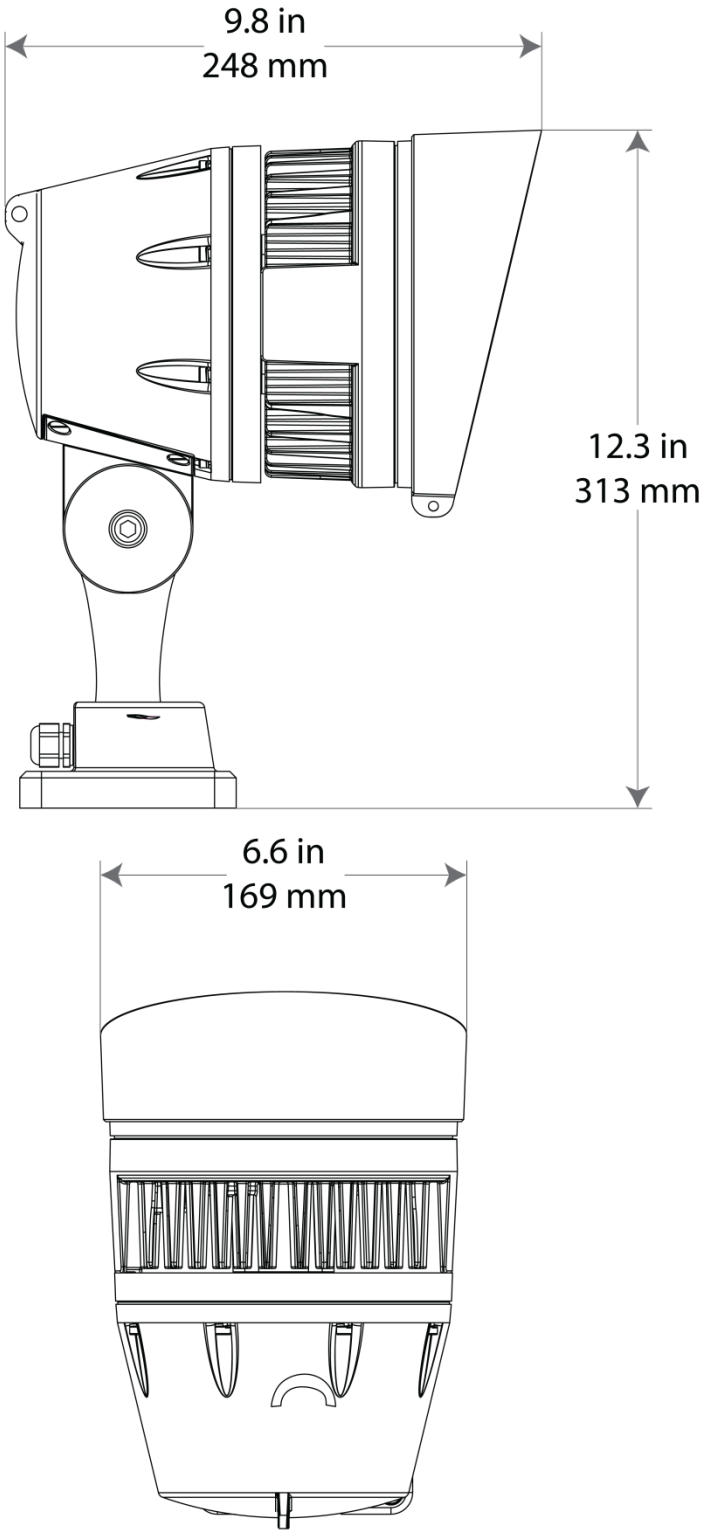
Options

- ILUMICODE ADDRESSER (for product configuration)

Overview



Dimensions



3. Installation

Mounting

Before mounting this product, read and follow the safety recommendations indicated in the Safety Notes.

Orientation

Always mount this product in a safe position, making sure there is adequate room for ventilation, configuration, and maintenance.

Installation

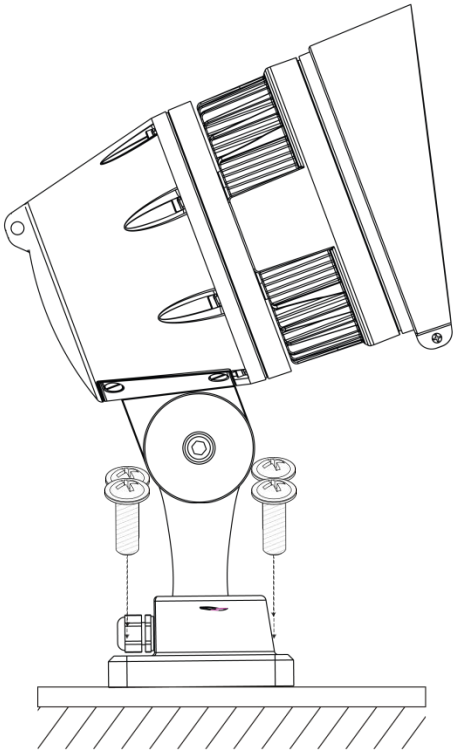
⚠ Make sure to mount this product away from any flammable material as indicated in the Safety Notes.

The Ilumipod 18g2 IP Optic RGB comes with two adjustable brackets with 3mm slot openings to mount the product on any firm, non-flammable surface. Once mounted the angle of the product can also be adjusted and locked into place. ILUMINARC® recommends following the general guidelines below when mounting the Ilumipod 18g2 IP Optic RGB.

- When selecting an installation location, consider ease of access to the product for operation, programming adjustments and routine maintenance.
- Make sure the product's mounting location can support its weight. Please see the Technical Specifications section of this manual for the weight requirement of this product.

Procedure

The Ilumipod 18g2 IP Optic RGB comes with a mounting base which connects to the arm of the product. The mounting plate has 4 6.1-mm holes on the corners to mount the product in any orientation to almost any firm, non-flammable surface capable of supporting its weight. You will have to use 4 mounting points per product.



Always connect the Ilumipod 18g2 IP Optic RGB to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.

Never connect the Ilumipod 18g2 IP Optic RGB to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0% to 100% switch.

Make sure to connect the Ilumipod 18g2 IP Optic RGB to a power line with the proper voltage and frequency, as per the specifications in this manual or on the product's sticker.

The listed current rating indicates the maximum current draw during normal operation.

If you choose to bury the power or signal distribution boxes, make sure that they are IP67-rated or greater.

AC Power

The Ilumipod 18g2 IP Optic RGB has an auto-ranging power supply that works with an input voltage range of 100~240 VAC, 50/60 Hz.

Make sure that you are connecting this product to the proper voltage, as per the specifications in this User Manual or on the product's sticker.

Power Consumption

To determine the power requirements for the Ilumipod 18g2 IP Optic RGB, refer to the label affixed to the side of the product. You may also refer to the Technical Specifications.

The listed current rating indicates the maximum current draw during normal operation.

AC Plug

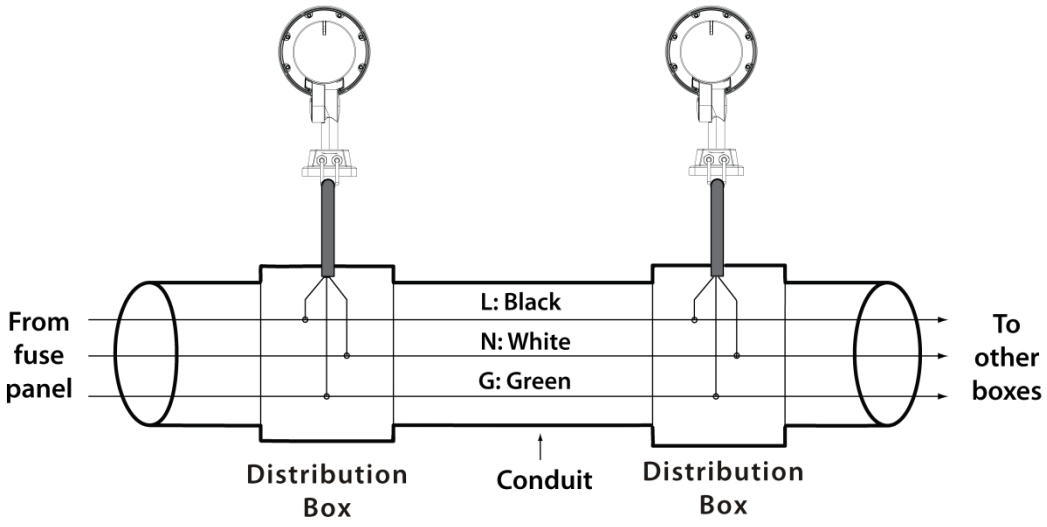
The Ilumipod 18g2 IP Optic RGB comes with a bare-ended power input cord for hardwire installation. Use the table and the illustration below to wire a plug.

Connection	Wire (U.S.)	Screw Color (U.S.)	Wire (Europe)	IP67 Pin
AC Live	Black	Yellow or Brass	Brown	1
AC Neutral	White	Silver or Gray	Blue	2
AC Ground	Green/Yellow	Green	Green/Yellow	3

Power Wiring

You can connect the bare-ended, IP67-rated AC power cable from the product to an IP67-rated power connector or IP67-rated junction box.

If using junction boxes, make sure to use IP67-rated conduit for surface installations.



The Ilumipod 18g2 IP Optic RGB must be linked using DMX cable in a daisy chain (serial) fashion. To comply with the EIA-485 standard, no more than 32 products should be connected on one daisy chain without using a DMX optically isolated splitter. Doing otherwise may result in deterioration of the digital DMX signal.

USITT recommends limiting the total length of the DMX cable (from the first product/controller to the last product) to 300~455 m (985~1,500 ft).

Disconnect the product from the AC power before opening it.

The signal cable must match or exceed the electrical characteristics of the Belden® 9841 cable for EIA RS-485 applications. You may also use CAT5, 5e, or CAT6 LAN cable.

DMX Linking

You may link the Ilumipod 18g2 IP Optic RGB to a DMX controller using a standard DMX serial connection. If using other DMX products compatible with the Ilumipod 18g2 IP Optic RGB, you can control each individually with a single DMX controller.

If you are not familiar with the DMX standard, or if you need information about the DMX cables needed to link the Ilumipod 18g2 IP Optic RGB to a DMX controller, you may download the "DMX Primer" from the ILUMINARC® website at http://www.iluminarc.com/reports/dmx-primer.

DMX Modes

The Ilumipod 18g2 IP Optic RGB uses the standard DMX data connection for its all its DMX personalities. Refer to the Introduction chapter for a brief description of these modes. Refer to the Operation chapter to learn how to configure the Ilumipod 18g2 IP Optic RGB to work in these modes. The DMX Values section provides detailed information regarding the DMX modes.

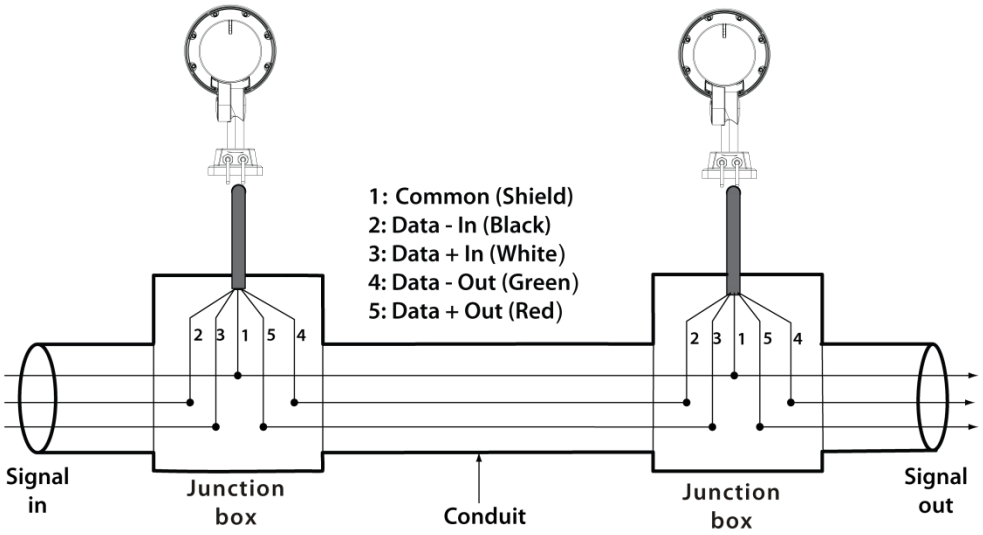
DMX Mode	DMX Address
ARC FULL	506
ARC1	510
ARC1+D	509
SOLID	512

Signal Wiring

To provide signal for the Ilumipod 18g2 IP Optic RGB, you can connect the bare-ended, IP67-rated signal cable from the product to two IP67-rated signal connectors (DMX In/DMX Out) or use an IP67-rated junction box. In this case, make sure to use IP67-rated conduit.

Protocol Connectivity

The Ilumipod 18g2 IP Optic RGB uses USITT DMX 512 protocol. The procedure below illustrates the recommended connection method.



Controllers

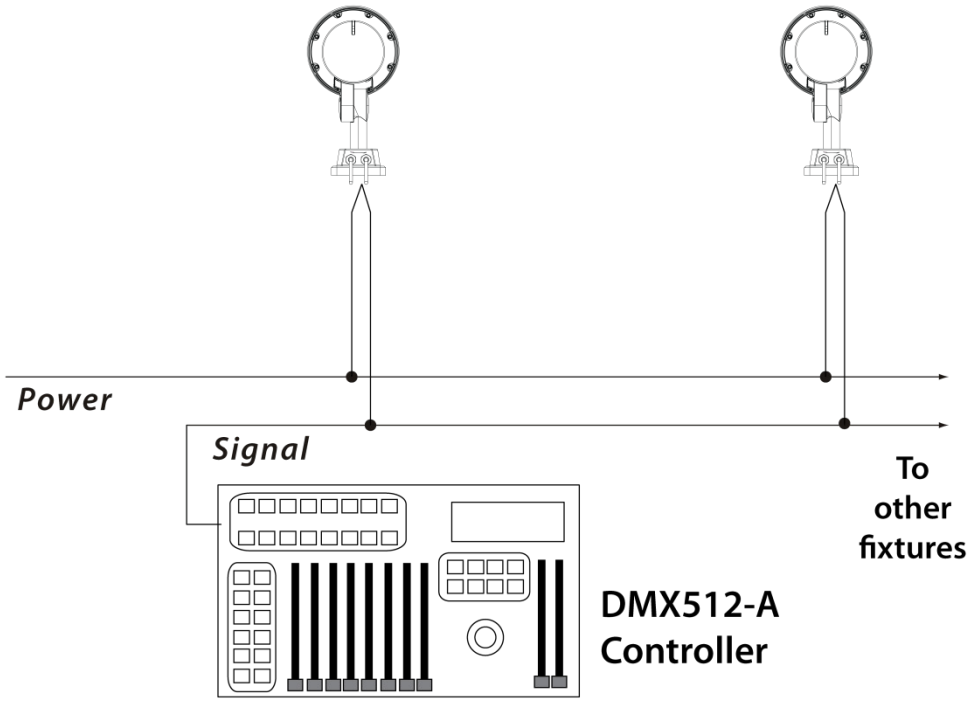
If you have not configured the DMX starting address and DMX mode for each product, they will all use their default values. This means that all products will operate in unison.

The Ilumipod 18g2 IP Optic RGB can operate with a standard DMX controller or the ILUMICODE ADDRESSER. The sections below provide information on how to connect these products to the corresponding controllers. The instructions to operate these products with each of the above controllers are in the Operation chapter of this manual.

DMX Controller

The Ilumipod 18g2 IP Optic RGB can work with a standard DMX controller. The channel assignments will depend on the chosen personality (see the corresponding Menu Map section) and the DMX address assigned to each product (see the Programming section).

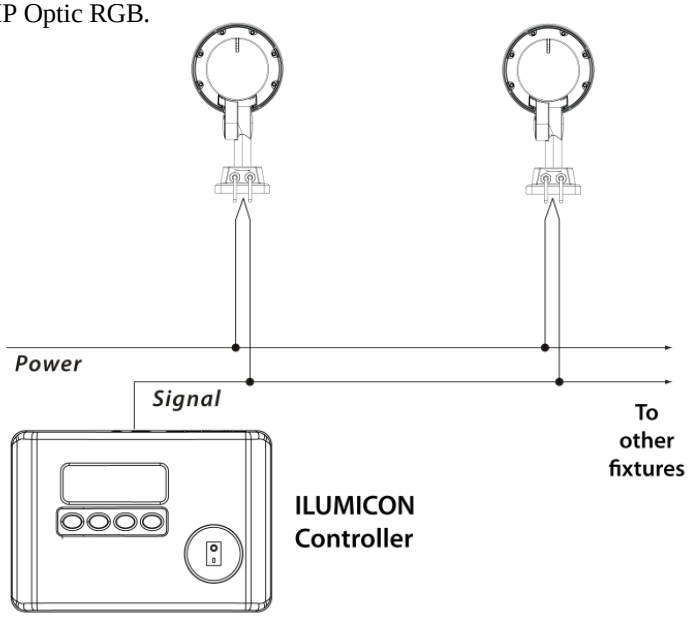
The figure below illustrates how to connect the DMX controller to the Ilumipod 18g2 IP Optic RGB.



ILUMICON

The Ilumipod 18g2 IP Optic RGB can also work with the ILUMICON controller instead of a standard DMX controller. Please refer to the ILUMICON User Manual to learn how to use this controller with the Ilumipod 18g2 IP Optic RGB.

The figure below illustrates how to connect the ILUMICON controller to the Ilumipod 18g2 IP Optic RGB.



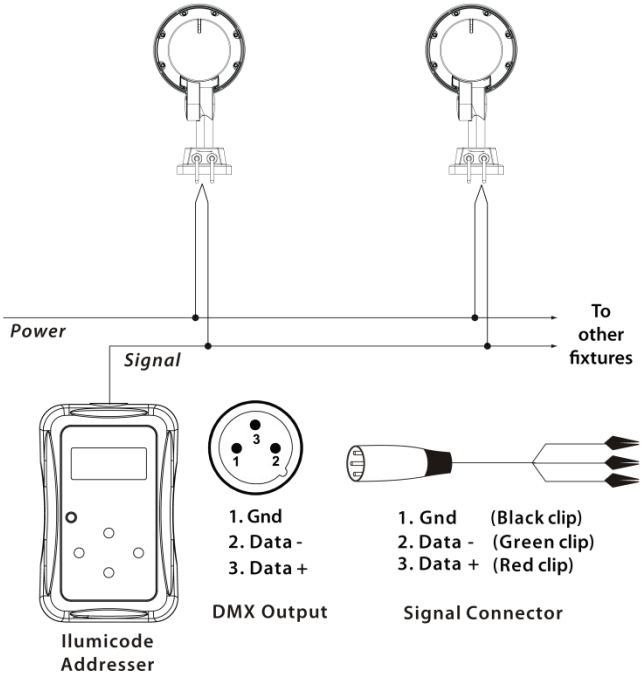
To assign individual DMX addresses to each product, you must connect the ILUMICODE ADDRESSER to each product, individually.

ILUMICODE ADDRESSER

The Ilumipod 18g2 IP Optic RGB uses the ILUMICODE ADDRESSER ("Ilumicode") for configuration purposes. The diagram below shows how to connect the Ilumicode to this product. This connection will control multiple products at the same time, all having the same DMX address.

Important: The Ilumicode must be used to configure this product. The Ilumicode can be purchased separately through your ILUMINARC® sales representative.

ILUMINARC® suggests that you connect no more than 20 products in this mode and keep the total distance to less than 60 m (197 ft). Otherwise, you might need to use an optically isolated signal amplifier.



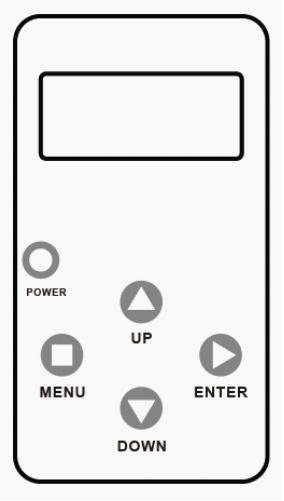
4. Operation

ILUMICODE ADDRESSER

To use the Ilumicode to change the configuration of the Ilumipod 18g2 IP Optic RGB, follow these instructions.

Ilumicode Panel Description

Button	Function
<MENU>	Exits from the current menu or function
<ENTER>	Enables the currently displayed menu or sets the currently selected value into the selected function
<UP>	Navigates upwards through the menu list and increases the numeric value when in a function
<DOWN>	Navigates downwards through the menu list and decreases the numeric value when in a function
<POWER>	Turns the unit on. The unit will turn off automatically after 30 seconds of inactivity



Control Options

You can set the Ilumipod 18g2 IP Optic RGB start address in the **001~512** DMX range. This allows for the control of up to 73 products in the 7-channel **ARC FULL** personality.

Programming

Carry out all the programming procedures indicated below from the control panel. Refer to the Menu Map section to learn how the menu options relate to each other.

Use **<ENTER>** and **<MENU>** to change levels in the Menu Map, moving right and left respectively. Use **<UP>** and **<DOWN>** to move vertically within the Menu Map.

When you scroll through the menu options, you will see many of them that do not correspond with the menu map. Skip them, as they do not work with the **RGB** only output products.

DMX Personality

1. Go to **PERSON** and select any DMX personality.
2. Make sure to rearrange the DMX addresses of all products in the current DMX universe to avoid address overlapping.

DMX Starting Address

1. Go to **DMX**.
2. Select a starting DMX address (**001~512**).

Static Colors

1. Go to **STATIC**.
2. Select a color or effect (**RED**, **GREN**, **BLUE**, or **STRB**).
3. Select a color value (**000~255**) or a strobe frequency (**00~20**).

Dimmer

This setting gives the user four different options to simulate the dimming curve of an incandescent lighting product.

DIM1 is the fastest dimming curve and **DIM4** is the slowest.

1. Go to **DIMMER**.
2. Select a dimming curve (**OFF** or **DIM1~4**).

Procedure:

DIMMER	Description
OFF	Dimmer curve is linear with fader
DIM1	Non-linear (fastest)
DIM2	Non-linear (fast)
DIM3	Non-linear (slow)
DIM4	Non-linear (slowest)

Color

1. Go to **SETTINGS > COLOR**.
2. Select the color method (**OFF**, **RGBTOW**, or **UC**).

Details:

OFF

When the RGB faders are all set to "**255**", the output is maximum.

RGBTOW

When the RGB faders are all set to "**255**", the output is the selected White color (see Whites Setting).

UC

When the RGB faders are all set to "**255**", the output matches the same color output of previous versions of this product.

Whites Setting

1. Go to **CALIB**.
2. Select a white color (**WHITE 1~11**) or **RGB TO W**.
3. Select an RGB color (**RED**, **GREN**, or **BLUE**).
4. Configure the color value (**000~255**).
5. Repeat steps 3 and 4 for the other RGB colors to obtain a white color.
6. Repeat steps 2 through 5 for the other white colors.

Reset to Factory Settings

1. Go to **SETTINGS > RESET**.
2. Select an option (**YES/NO**).

Menu Map

Main Level	Programming Levels			Description
DMX	**001~512**	N/A		Sets the DMX starting address
PERSON	**ARC 1**	N/A		3-channel: RGB control
	ARC 1 + D			4-channel: RGB control + dimmer
	ARC FULL			7-channel: RGB control, dimmer, color macro, strobe, dimmer speed
	REMOTE			Allows use of the ILUMICON
	SOLID			1-channel: dimmer
CALIB	**WHITE (1~11)**	**RED GREN BLUE**	**000~255**	Determines the white balance for the color macros
	RGBTOW			Determines the white balance when RGBTOW is active
DIMMER	**OFF**	N/A		Dimmer works in linear mode
	DIM 1			Dimmer works in non-linear mode, from fast to slow
	DIM 2			
	DIM 3			
	DIM 4			
STATIC	**RED**	**000~255**		Configures the static color and effects
	GREN			
	BLUE			
	STRB			
SETTINGS	**COLOR**	**OFF**		Maximum output, unbalanced white
		RGBTOW		White output is as per **CALIB > RGBTOW** settings
		UC		Output matches that of product's previous versions
	RESET	**NO/YES**		Resets unit to factory default settings

DMX Values

ARC FULL

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ⇔ 255	0~100%
2	**Red**	000 ⇔ 255	0~100%
3	**Green**	000 ⇔ 255	0~100%
4	**Blue**	000 ⇔ 255	0~100%
5	**Color Macros**	000 ⇔ 010	No function
		011 ⇔ 030	R: 100% G: 0~100% B: 0
		031 ⇔ 050	R: 100%~0 G: 100% B: 0
		051 ⇔ 070	R: 0 G: 100% B: 0~100%
		071 ⇔ 090	R: 0 G: 100%~0 B: 100%
		091 ⇔ 110	R: 0~100% G: 0 B: 100%
		111 ⇔ 130	R: 100% G: 0 B: 100%~0
		131 ⇔ 150	R: 100% G: 0~100% B: 0~100%
		151 ⇔ 170	R: 100%~0 G: 100%~0 B: 100%
		171 ⇔ 200	R: 100% G: 100% B: 100%
		201 ⇔ 205	White 1
		206 ⇔ 210	White 2
		211 ⇔ 215	White 3
		216 ⇔ 220	White 4
		221 ⇔ 225	White 5
		226 ⇔ 230	White 6
		231 ⇔ 235	White 7
		236 ⇔ 240	White 8
		241 ⇔ 245	White 9
		246 ⇔ 250	White 10
		251 ⇔ 255	White 11
6	**Strobe**	000 ⇔ 009	No function
		010 ⇔ 255	Slow~Fast
7	**Dimmer Speed**	000 ⇔ 009	Off
		010 ⇔ 069	Speed 1 (Fastest)
		070 ⇔ 129	Speed 2
		130 ⇔ 189	Speed 3
		190 ⇔ 255	Speed 4 (Slowest)

ARC 1

Channel	Function	Value	Percent/Setting
1	**Red**	000 ⇔ 255	0~100%
2	**Green**	000 ⇔ 255	0~100%
3	**Blue**	000 ⇔ 255	0~100%

ARC 1 + D

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ⇔ 255	0~100%
2	**Red**	000 ⇔ 255	0~100%
3	**Green**	000 ⇔ 255	0~100%
4	**Blue**	000 ⇔ 255	0~100%

SOLID

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ⇔ 255	0~100%

5. Technical Information

Product Maintenance

To maintain optimum performance and minimize wear, clean the products frequently. Usage and environment are contributing factors in determining the cleaning frequency. As a general guideline, products should be cleaned at least twice a month. Dust build-up reduces light output, performance, and can cause overheating. This can lead to reduced light source life.

For products containing external optical lenses, clean them periodically to optimize light output. The cleaning frequency depends on the environment in which the product operates. Damp, smoky, or particularly dirty surrounding can cause greater accumulation of dirt on the product's optics, requiring more frequent cleaning.

Always dry the external optics and glass surfaces carefully after cleaning them.

To clean a product:

- Unplug the product from power.
- Wait until the product has cooled.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents and reachable internal components.
- Clean all external glass optics and glass surfaces with a mild solution of glass cleaner or isopropyl alcohol, and a soft, lint-free cotton cloth or lens-cleaning tissue.
- Apply the solution directly to the cloth or tissue and wipe any dirt and grime to the outside edge of the lens.
- Gently polish the external glass surfaces until they are free of haze and lint.

If you still experience technical problems after trying the solutions in the Troubleshooting Table, contact ILUMINARC® Technical Support.

Product Repairs

ILUMINARC® strongly advises you against attempting any repairs to this product unless you are an authorized ILUMINARC® technician.

ILUMINARC® presents the information contained in the Troubleshooting Guide as potential solutions only. In most cases, opening the product's housing will invalidate its warranty.

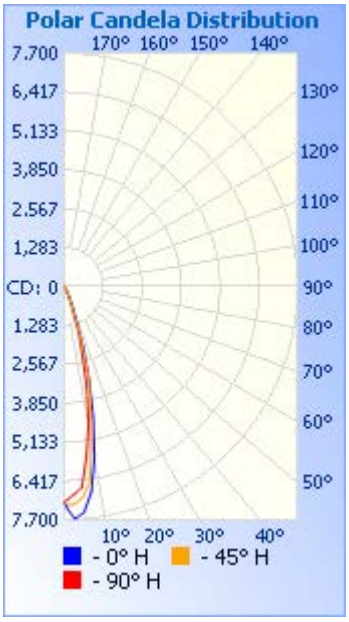
Troubleshooting Guide

Symptom	Cause(s)	Action(s)
Circuit breaker/fuse keeps tripping/blowing	Excessive circuit load	Check total load placed on the electrical circuit
	Short circuit along the power wires	Check for a short in the electrical wiring
Product does not power up	No power	Check for power on power outlet
	Loose or damaged power cord	Check power cord
	Faulty internal power supply	Return for service to ILUMINARC®
Product does not respond to DMX	Wrong DMX addressing	Check Control Panel and product addressing
	Damaged DMX cables	Check DMX cables
	Wrong polarity on the controller	Check polarity switch settings on the controller
	Loose DMX cables	Check cable connections
	Faulty DMX interface	Return for service to Iluminarc®
	Faulty Display/Main board	Return for service to Iluminarc®
DMX signal problems	Non-DMX cables	Use only DMX-compatible cables
	Bouncing signals	Install terminator as suggested in the "DMX Primer" from the ILUMINARC® website at http://www.iluminarc.com/reports/dmx-primer
	Long cable/low level signal	Install an optically coupled DMX splitter right after the product with the strong signal
	Too many products	Install an optically coupled DMX splitter after product #32 or before
	Interference from AC wires	Keep DMX cables separated from power cables or fluorescent/black lights

Photometrics

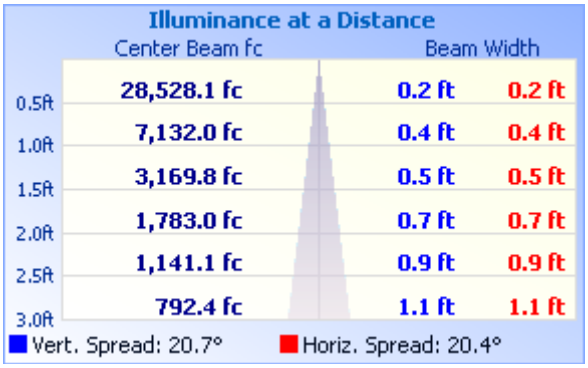
ILUMINARC®

Filename: **ILIMIPOD 18g2-RGB-30deg_IESNA2002**
Manufacturer: ILUMINARC
Luminaire: 6R+6G+6B
Lamp Cat: ILUMIPANEL 18g2
Lamp Output: 1 lamp, rated Lumens/lamp: 2000
Max Candela: 7,680.1 at Horizontal: 0°, Vertical: 2.5°
Input Wattage: 56.9
Luminous Opening: Point
Test Date: 2012-04-27
Test Lab: Iluminarc R&D Optics Laboratory
Photometry : Type B
CIE Class: Direct



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	50.5%	1,009.6	38.1	37.9
Beam (50%):	27.7%	554.3	20.4	20.7
Total:	61.4%	1,227.1		



Photometrics Pro 1.3.21 copyright 2003-2012 by jSolutions, Inc.
Reported data calculated from manufacturer's data file, based on IES recommended methods.

LED Disclaimer

LED Life

ILUMINARC® rates LED lifetime based on lumen depreciation of 70% of the original output, with data provided by the manufacturer of the LED. Data from the manufacturer of the LED are not independently verified or measured by ILUMINARC®. When the product is operating in optimal environmental conditions, the LED lifetime is rated to be 50,000 to 70,000 hours by the LED manufacturer.

LED Binning

LED manufacturers sort LEDs into "bins," based on variances in color, output intensity, and the frequency at which the semiconductor operates. ILUMINARC® strives to hold its LED manufacturers to the highest standards of binning to optimize consistency in output from product to product. However, the availability of a single bin cannot be guaranteed. With that in mind, ILUMINARC® has developed a rigorous control system to seek the best-achievable consistency in color and output.

Color Rendering Index (CRI)

CRI is an industry standard method to compare properties of different types of light sources. There are known limitations and inconsistencies related to CRI. Results may vary depending on the environmental factors involved. For this reason, the U.S. Department of Energy (DOE) states that CRI should be considered as one point of reference among others in evaluating white LED products and systems.

The following is an excerpt of recommendations from the DOE:

1. Identify the visual tasks to be performed under the light source. If color fidelity under different light sources is critically important (for example, in a space where color or fabric comparisons are made under both daylight and electric lighting), CRI values may be a useful metric for rating LED products.
2. CRI may be compared only for light sources of equal correlated color temperature. This applies to all light sources, not only to LEDs. Also, differences in CRI values of less than five points are not significant, e.g., light sources with 80 and 84 CRI are essentially the same.
3. If color appearance is more important than color fidelity, do not exclude white light LEDs solely on the basis of relatively low CRI values. Some LED products with CRIs as low as 25 still produce visually pleasing white light.
4. Evaluate LED systems in person and, if possible, on-site when color fidelity or color appearance are important issues.

Source: DOE publication: PNNL-SA-56891, January 2008

Return Procedure

You must send the merchandise prepaid, in the original box, and with its original packing and accessories. ILUMINARC® will not issue call tags.

Call ILUMINARC® and request a Return Merchandise Authorization Number (RMA #) before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause for the return.

The user must clearly label the package with an RMA #. ILUMINARC® will refuse any product returned without an RMA #. **DO NOT write the RMA # directly on the box. Instead, write it on a properly affixed label.**

Once you receive the RMA #, please include the following information on a piece of paper inside the box:

- Your name
- Your address
- Your phone number
- The RMA #
- A brief description of the problem

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. FedEx packing or double-boxing are recommended.

ILUMINARC® reserves the right to use its own discretion to repair or replace returned product(s).

Always keep the original box and all packaging material as you will need those to ship the product back to ILUMINARC®.

Contact Us

World Wide

General Information

ILUMINARC®
5200 NW 108th Avenue
Sunrise, FL 33351
Voice: (954) 923-3680
Fax: (954) 741-5571
Email: info@iluminarc.com

Customer Support

Voice: (954) 577-4455 (ext. 4)
Fax: (954) 756-8015
Email: tech@iluminarc.com

World Wide Web www.iluminarc.com

Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
9.8 in (248 mm)	6.6 in (169 mm)	12.3 in (313 mm)	11.6 lbs (5.26 kg)

Note: Dimensions in inches rounded to the nearest decimal digit.

Electrical

Power Supply Type	Range	Voltage Selection
Switching (internal)	100~240 V, 50/60 Hz	Auto-ranging

Parameter	120 V, 60 Hz	230 V, 50 Hz
Consumption	57 W (0.454 A)	53 W (0.222 A)

Power I/O	Input	Output
Connectors	Open Wire	N/A
Cord plug	Open Wire	N/A

Light Source

Type	Power	Lifespan
LED	1 W	50,000 hours

Color	Quantity	Current
Red	6	700 mA
Green	6	1000 mA
Blue	6	1000 mA

Photo Optic

Parameter	Standard 30º Optics
Illuminance @ 5 m	285.24 lx
Beam angle	20.6º
Field angle	38.0º

Thermal

Max. External Temperature	Cooling System
113° F (45° C)	Integrated Cooling Enhancment™

DMX

I/O Connectors	Connector Type	Channel Range
Open Wire	Open Wire	1, 3, 4, 7

Ordering

Product Name	Item Code	UPC Number
Ilumipod 18g2 IP Optic 15 RGB	01630554	781462209025

UL 1573
CSA C22.2 No. 166
E113093

ILUMINARC®
5200 NW 108th Avenue
Sunrise, FL 33351 U.S.A.
Voice: (954) 923-3680
www.iluminarc.com

Ilumipod 18g2 IP Optic RGB User Manual Rev. 1
October 2012

ILUMINARC®